

What is Claimed is:

A3 1. An anti-howling device in a cathode ray tube comprising:
anti-howling means having contact members each in contact with a shadow mask for
receiving, and dispersing a vibration, and connecting members for connecting adjacent
5 contact members; and,

fixing means for actually bringing the contact members in the anti-howling means
into contact with the shadow mask,

wherein the contact members receive the vibration of the shadow mask, to disperse
the vibration by impact and friction between the contact members and the shadow mask.

2. An anti-howling device as claimed in claim 1, wherein the contact member is
spherical with a pass through hole for passing an end of the connecting member.

3. An anti-howling device as claimed in claim 1, wherein the contact member is
15 cylindrical with a pass through hole for passing an end of the connecting member.

4. An anti-howling device as claimed in claim 1, wherein the contact member
includes;

a contact part having a pass through hole at one side, and

20 a connecting part formed as a unit with the contact part,

wherein the connecting member has a form actually identical to the contact member.

5. An anti-howling device as claimed in claim 1, wherein the contact member has a
ring form.

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6. An anti-howling device as claimed in claim 5, wherein the connecting member has
a ring form.

5 7. An anti-howling device as claimed in claim 1, wherein the anti-howling means is
fitted to a non-effective area of the shadow mask.

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8. An anti-howling device as claimed in claim 1, wherein the fixing means is fitted to
opposite ends of the connecting member.

10 9. An anti-howling device as claimed in claim 1, wherein the fixing means is fitted to
a non-effective area of the shadow mask.

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10 10. An anti-howling device as claimed in claim 1, wherein the fixing means is fitted
15 to a mask holding frame.

11. An anti-howling device as claimed in claim 1, wherein the fixing means includes;
holding parts for holding opposite ends of the anti-howling means, and
fitting parts each extended from the holding part for fitting to the shadow mask,
20 wherein the contact members are brought into contact with the shadow mask by using
an elastic tension of the holding parts.

12. An anti-howling device as claimed in claim 11, wherein a length between the
holding parts is formed shorter than an effective length of the anti-howling means for

applying tension to the anti-howling means when the anti-howling means is held by the holding parts.

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13. An anti-howling device as claimed in claim 11, wherein the holding part includes
5 an indent fit to a profile of the contact member in the anti-howling means.

14. An anti-howling device as claimed in claim 11, wherein the fitting part includes a contact hole in conformity with a lower part of the contact member in the anti-howling means, for bringing the contact member into contact with the shadow mask through the contact hole.

15. An anti-howling device as claimed in claim 11, wherein the fitting part includes a recess projected in a direction of the shadow mask.

16. An anti-howling device as claimed in claim 11, wherein the fixing means further
15 includes a connecting part for connecting the holding parts.

17. An anti-howling device as claimed in claim 16, wherein the connecting part has a length shorter than an effective length of the anti-howling means for applying tension to the anti-howling means when the anti-howling means is held by the holding parts.

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18. An anti-howling device as claimed in claim 17, wherein the connecting part includes assembly holes each having a size almost the same with the contact member and slots each connected to the assembly hole having a size almost the same with a diameter of the connecting member in the anti-howling means, and the holding part includes a slot

connected to the slot in the connecting part.

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19. An anti-howling device as claimed in claim 17, wherein the connecting part includes a cutout at approx. center of an edge of the connecting part.

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20. An anti-howling device as claimed in claim 1, wherein the fixing means includes; a guiding part for bringing the contact members in the anti-howling means into contact with the shadow mask,

a holding part for holding the connecting members in the anti-howling means, and

a fitting part fitted to the shadow mask having one sides of the holding part and the guiding part connected thereto.

21. An anti-howling device as claimed in claim 20, wherein the fitting part is fixed to the mask holding frame.

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22. An anti-howling device as claimed in claim 20, wherein the fitting part is fixed to the non effective area of the shadow mask.

23. An anti-howling device as claimed in claim 20, wherein the fitting part includes a recess projected in a direction of the shadow mask.

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